

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P317622

Luminaire Tested: **GAN-SA8D-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51479 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



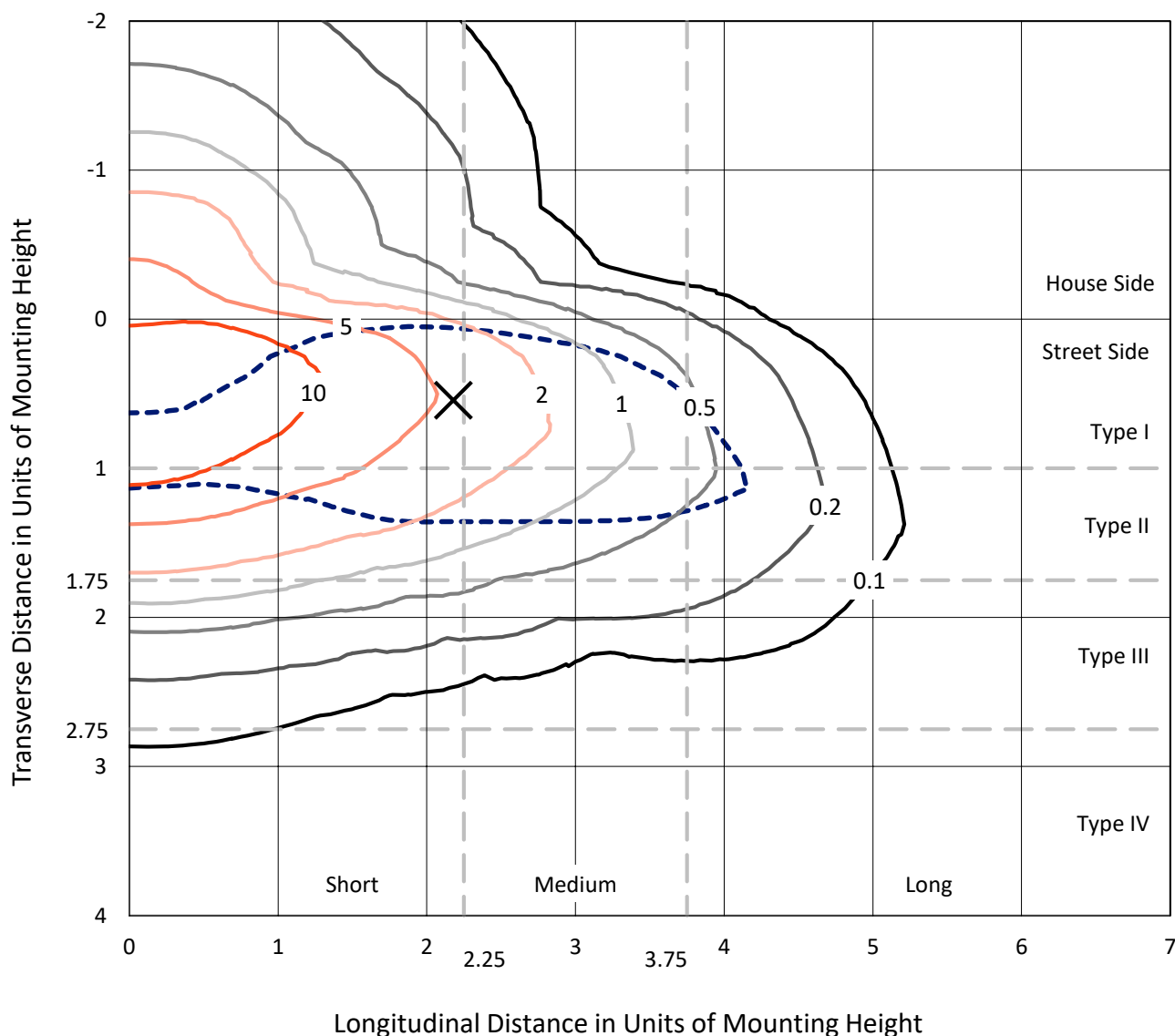
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

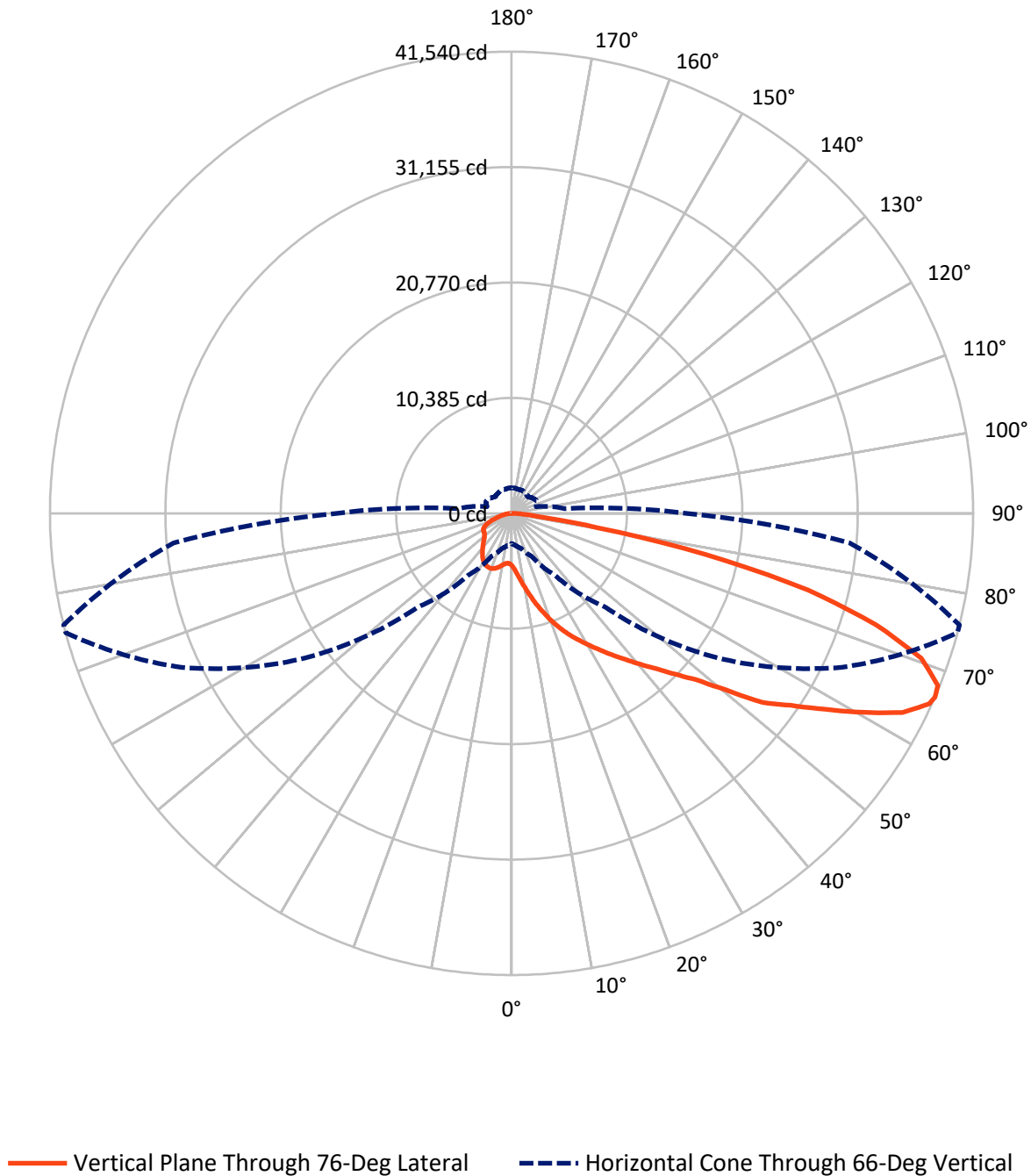


Based on 25 foot mounting height. Maximum calculated value = 20 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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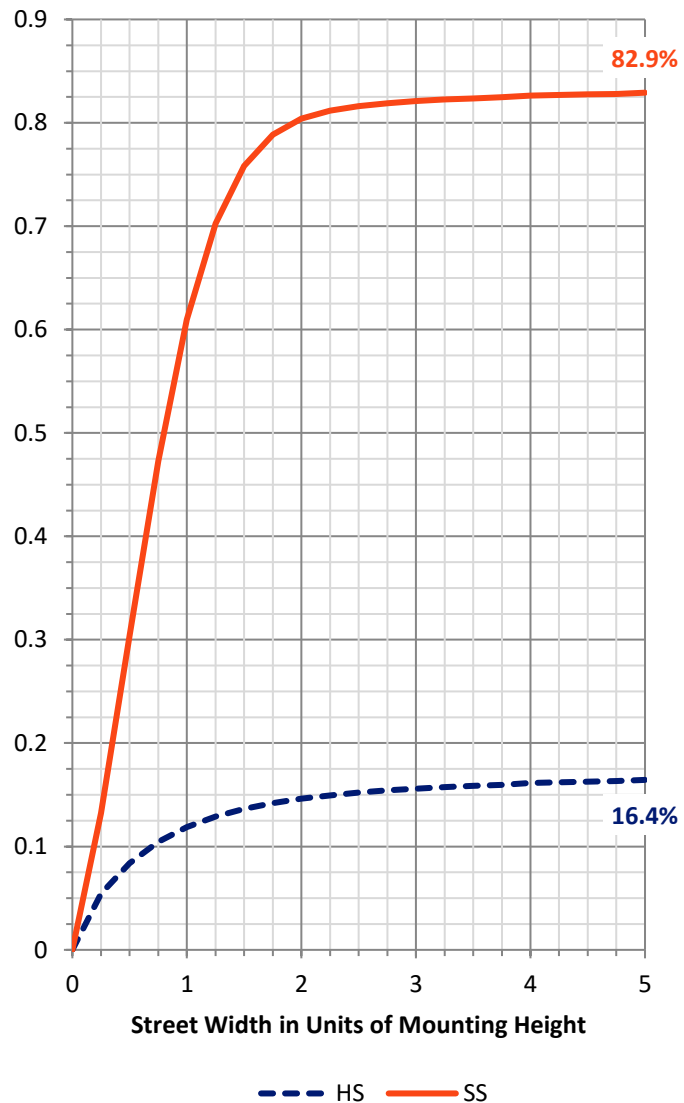
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8662.1	0.0	8662.1
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	42816.9	0.0	42816.9
	% Fixture	83.2	0.0	83.2
Total	Lumens	51479.0	0.0	51479.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.5	1.1
10°-20°	2245.0	4.4
20°-30°	4362.5	8.5
30°-40°	7120.6	13.8
40°-50°	9728.5	18.9
50°-60°	11331.7	22.0
60°-70°	10159.1	19.7
70°-80°	5134.0	10.0
80°-90°	829.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	51479.0	100.0
0°-180°	51479.0	100.0

Coefficient of Utilization



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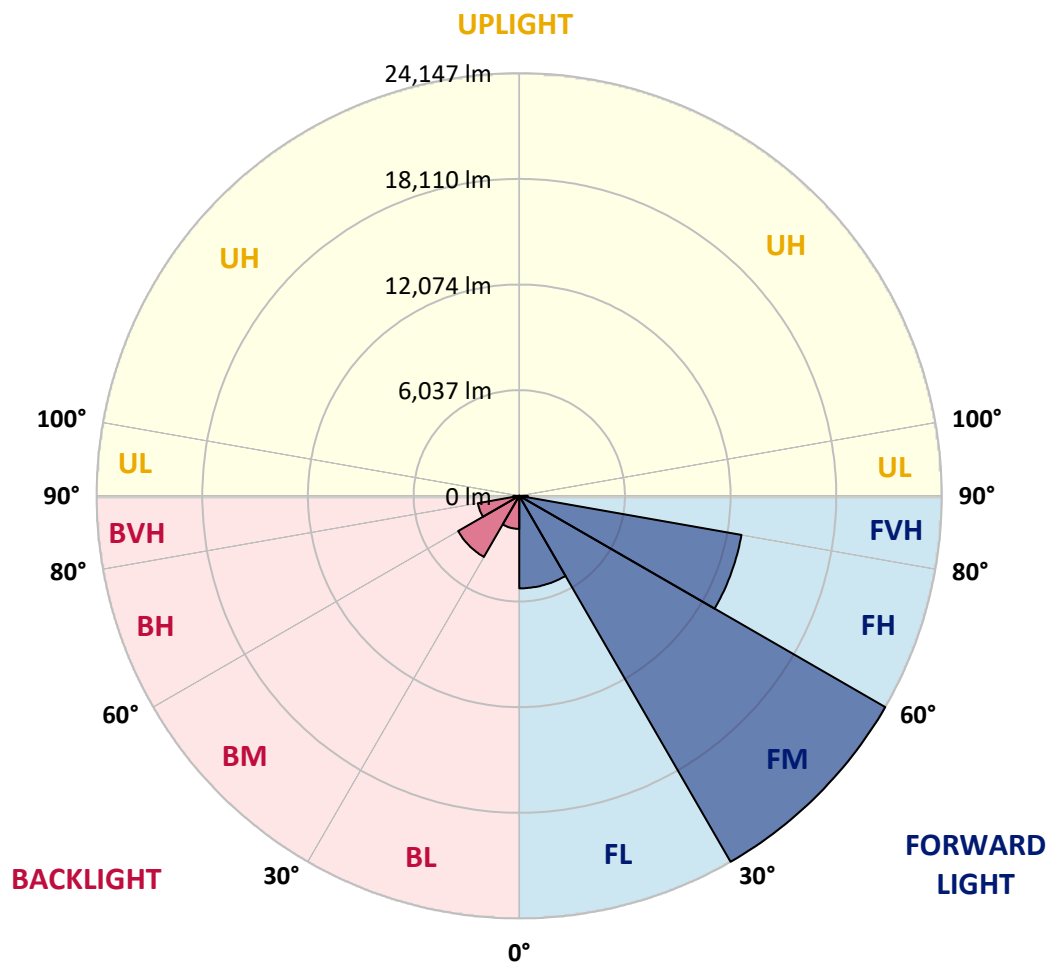
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5286.8	10.3			
FM	(30°-60°)	24147.2	46.9			
FH	(60°-80°)	12893.3	25.0			G5
FVH	(80°-90°)	489.6	1.0			G3/500
BL	(0°-30°)	1889.3	3.7	B3/2500		
BM	(30°-60°)	4033.6	7.8	B3/5000		
BH	(60°-80°)	2399.8	4.7	B3/2500		G3/2500
BVH	(80°-90°)	339.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2
2.5°	6240.9	6146.5	6137.8	5999.7	5968.2	5704.3	5510.4	5307.6	5076.9	5031.5	4849.7
5°	8016.5	8007.8	7887.2	7661.7	7485.2	7034.3	6588.7	6116.8	5599.5	5515.6	5106.6
7.5°	9613.9	9599.9	9507.2	9264.3	9009.2	8455.2	7819.0	7095.5	6256.6	6132.5	5454.4
10°	10826.7	10821.5	10790.0	10611.8	10395.1	9863.8	9161.2	8173.8	7020.3	6850.8	5889.6
12.5°	11763.5	11774.0	11794.9	11732.0	11628.9	11176.3	10456.2	9316.8	7834.7	7667.0	6373.7
15°	12397.9	12429.3	12537.7	12626.8	12681.0	12403.1	11705.8	10485.9	8747.0	8546.0	6910.2
17.5°	12717.7	12752.6	12939.6	13208.8	13456.9	13429.0	12875.0	11600.9	9622.6	9428.6	7487.0
20°	12993.8	13020.0	13229.8	13553.1	13991.7	14185.7	13874.6	12674.0	10582.1	10351.4	8098.6
22.5°	13794.2	13827.5	13890.4	14073.9	14461.9	14818.4	14668.1	13689.4	11461.1	11246.2	8678.9
25°	15339.2	15379.4	15243.1	15087.5	15160.9	15409.1	15437.0	14615.6	12352.4	12109.5	9302.8
27.5°	17200.4	17258.1	17025.7	16625.4	16275.9	16179.8	16146.6	15374.1	13203.5	12922.2	9919.7
30°	19023.2	19122.8	18820.5	18301.5	17660.1	17209.2	16875.4	16116.9	14042.4	13773.3	10501.7
32.5°	20804.1	20763.9	20325.2	19818.4	19066.9	18502.4	17695.0	16913.8	14986.1	14676.8	11080.1
35°	22024.0	22037.9	21630.7	21029.5	20313.0	19879.6	18792.5	17773.7	15949.1	15664.2	11737.3
37.5°	23062.1	22997.4	22536.0	21975.0	21358.1	21172.8	20077.1	18720.9	16992.5	16681.4	12436.3
40°	23408.1	23333.0	23030.6	22626.9	22132.3	22116.6	21494.4	19793.9	18172.1	17864.5	13224.5
42.5°	23198.4	23102.3	22978.2	22868.1	22716.0	22785.9	22826.1	21052.3	19468.9	19124.6	14136.8
45°	22424.2	22279.1	22366.5	22605.9	22936.2	23331.2	24028.5	22445.1	20921.2	20632.8	15208.1
47.5°	21234.0	21102.9	21375.6	21887.6	22785.9	23785.6	25166.2	23983.1	22654.9	22368.2	16733.8
50°	19559.8	19598.2	19987.9	20919.4	22277.4	23995.3	26567.9	26019.1	25175.0	24907.6	18815.3
52.5°	16812.4	16819.4	17917.0	19446.2	21375.6	23887.0	27345.6	28621.4	28616.1	28292.8	20797.1
55°	14260.9	14416.4	15285.0	17317.5	19914.5	23453.5	27889.1	29886.7	30875.8	30496.6	22644.4
57.5°	11768.7	11859.6	12682.7	14724.0	17829.6	22298.3	28446.6	31405.4	33479.8	33240.4	24940.8
60°	8934.0	9073.8	9924.9	11810.7	15162.7	20248.3	28499.0	32990.5	36592.4	36351.2	27504.6
62.5°	5798.7	6039.9	6836.8	8603.7	11936.5	17300.0	27282.7	34026.9	39542.5	39456.8	29780.1
65°	3332.8	3514.5	4068.5	5431.7	8235.0	13598.5	24390.3	33628.4	41358.3	41309.3	30631.2
66°	2722.8	2836.4	3261.1	4245.1	6794.9	11941.7	22709.0	32787.8	41538.3	41540.0	30533.3
67.5°	2177.6	2228.3	2418.8	3039.2	5014.0	9465.3	19704.8	30933.5	41314.6	41375.7	29902.4
70°	1801.8	1828.0	1887.5	2037.8	2736.8	5707.8	13986.5	26115.2	39068.8	39116.0	27439.9
72.5°	1616.6	1632.3	1655.0	1676.0	1931.2	3189.5	8542.5	20891.5	34254.1	34315.2	23687.7
75°	1464.5	1473.3	1469.8	1471.5	1620.1	2032.5	4414.6	15597.8	27696.8	27574.5	18145.9
77.5°	1286.3	1295.0	1277.5	1281.0	1433.1	1562.4	2196.8	10919.4	18691.2	17827.8	10223.8
80°	1087.0	1094.0	1087.0	1099.3	1247.8	1179.7	1277.5	6143.0	8264.7	7817.3	3635.1
82.5°	821.4	851.1	872.1	921.0	1027.6	838.9	854.6	2392.5	2516.6	2396.0	1115.0
85°	360.0	438.7	657.1	704.3	772.5	503.3	561.0	975.2	1024.1	992.7	405.5
87.5°	94.4	103.1	325.1	409.0	428.2	227.2	291.9	443.9	468.4	443.9	134.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2	4701.2
2.5°	4753.6	4668.0	4514.2	4377.9	4274.8	4204.9	4135.0	4100.0	4079.0	4058.1	4061.6
5°	4905.7	4732.7	4468.8	4281.8	4176.9	4110.5	4075.5	4061.6	4052.8	4031.8	4031.8
7.5°	5134.6	4889.9	4526.4	4334.2	4252.0	4201.4	4180.4	4173.4	4162.9	4138.4	4141.9
10°	5423.0	5080.4	4647.0	4460.0	4384.9	4328.9	4299.2	4288.7	4269.5	4241.6	4245.1
12.5°	5762.0	5316.4	4806.1	4610.3	4519.4	4444.3	4395.4	4365.6	4332.4	4295.7	4297.5
15°	6132.5	5573.3	4977.3	4744.9	4620.8	4515.9	4437.3	4386.6	4334.2	4288.7	4287.0
17.5°	6508.3	5821.4	5108.4	4818.3	4650.5	4512.4	4405.8	4327.2	4262.5	4206.6	4201.4
20°	6913.7	6045.1	5181.8	4811.3	4594.6	4430.3	4288.7	4190.9	4119.2	4063.3	4054.6
22.5°	7326.2	6254.9	5194.0	4739.6	4470.5	4269.5	4121.0	4012.6	3939.2	3881.5	3860.6
25°	7703.7	6417.4	5143.4	4601.6	4297.5	4080.8	3935.7	3825.6	3766.2	3698.0	3677.1
27.5°	8048.0	6531.0	5042.0	4425.1	4103.5	3890.3	3754.0	3659.6	3594.9	3542.5	3525.0
30°	8357.3	6592.2	4876.0	4215.3	3904.3	3710.3	3594.9	3530.3	3474.3	3407.9	3395.7
32.5°	8650.9	6592.2	4662.7	3986.4	3706.8	3551.2	3483.1	3442.9	3380.0	3315.3	3297.8
35°	8944.5	6552.0	4411.1	3747.0	3525.0	3437.6	3434.1	3387.0	3290.8	3203.5	3180.7
37.5°	9253.8	6469.8	4128.0	3523.3	3376.5	3387.0	3416.7	3311.8	3175.5	3051.4	3018.2
40°	9603.4	6356.2	3834.4	3329.3	3252.4	3364.2	3369.5	3203.5	2937.8	2824.2	2794.5
42.5°	10014.1	6242.6	3561.7	3158.0	3154.5	3296.1	3280.3	2969.3	2810.2	2752.6	2736.8
45°	10554.1	6178.0	3303.1	2995.5	3077.6	3186.0	3128.3	2839.9	2773.5	2740.3	2726.3
47.5°	11405.2	6211.2	3065.4	2866.2	3000.7	3075.9	2845.2	2787.5	2740.3	2700.1	2686.1
50°	12471.3	6191.9	2873.1	2777.0	2913.3	2960.5	2717.6	2719.4	2694.9	2649.4	2628.5
52.5°	13273.4	6041.6	2749.1	2726.3	2836.4	2756.1	2637.2	2652.9	2640.7	2574.3	2551.6
55°	14047.7	5912.3	2686.1	2707.1	2780.5	2500.9	2542.8	2581.3	2569.1	2504.4	2493.9
57.5°	15010.6	5887.9	2647.7	2712.4	2733.3	2373.3	2452.0	2502.6	2493.9	2465.9	2460.7
60°	16190.3	5894.8	2612.7	2721.1	2680.9	2278.9	2366.3	2431.0	2436.2	2431.0	2427.5
62.5°	16838.7	5704.3	2525.4	2696.6	2588.3	2196.8	2277.2	2371.6	2373.3	2383.8	2382.1
65°	16288.2	5134.6	2362.8	2611.0	2432.7	2128.6	2200.3	2303.4	2277.2	2324.4	2324.4
66°	15753.4	4806.1	2282.4	2555.1	2366.3	2102.4	2175.8	2268.5	2235.3	2299.9	2299.9
67.5°	14661.1	4252.0	2137.4	2436.2	2272.0	2065.7	2147.9	2210.8	2165.3	2261.5	2254.5
70°	12665.3	3289.1	1845.5	2167.1	2116.4	2011.6	2109.4	2095.4	2029.0	2175.8	2147.9
72.5°	10678.2	2499.1	1482.0	1814.1	1880.5	1943.4	2055.2	1948.6	1864.7	1967.9	1906.7
75°	8285.6	1878.7	1170.9	1410.4	1588.6	1836.8	1990.6	1779.1	1658.5	1648.0	1614.8
77.5°	4479.2	1289.8	928.0	1076.6	1261.8	1704.0	1946.9	1597.4	1415.6	1373.7	1347.4
80°	1773.9	838.9	674.6	816.2	882.6	1511.7	1842.0	1385.9	1167.4	1125.5	1085.3
82.5°	732.3	496.3	435.2	547.0	575.0	1293.3	1653.3	1136.0	901.8	1247.8	1324.7
85°	314.6	272.6	258.7	283.1	325.1	907.0	1316.0	866.8	973.4	868.6	690.3
87.5°	94.4	115.3	110.1	108.4	118.8	216.7	700.8	482.4	714.8	270.9	202.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)